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8/5/05**F A X****Tetra Tech EM Inc.**

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To: Jon Gulch - US EPA  
Fax number: (937) 335-3735

From: Stephanie Lemmy  
Fax number: (859) 746-9201

Date: 8/5/05

Regarding: NARAC models

Pages (including fax cover sheet): 3

**Comments:**

Jon -  
Please call if you need  
additional information or assistance

- Stephanie



## Max 10-min Avg Air Conc. of STYRENE

Troy Styrene Release  
Automated Report - Testing



NARAC, maps ©2002 GDT, Inc and/or LLNL

Map Size: 1.5 km by 1.5 km Id: Production2.rcE18953.rcC1.0

NARAC Operations: narac@llnl.gov; (925) 424-6465

Requested by: {Stephanie Wenning; EPA - Rgn 05; 513-564-8346 }

Not approved for further distribution

Effects or contamination from 05 Aug 2005 11:05 UTC to 05 Aug 2005 15:05 UTC at or near ground level.

### Acute (Short-Term) Effects

	(ppm) Area Extent	Population	Description
	>1,000 9.02E-5 km2 n/a	0	>ERPG-3: Death or irreversible health effects possible.
	>250 0.006 km2 n/a	1	>ERPG-2: Serious health effects or impaired ability to take protective action.
	>50 0.10 km2 n/a	3	>ERPG-1: Minor reversible health effects. Possible odor.

**Note:** Areas and counts in the table are cumulative.

**Source Location:** 40.026400 N, 84.200200 W

**Material:** STYRENE

**Comments:** Hypothetical release  
of 3.3784 lb/s starting at  
08/05/2005 11:05:00 UTC for 4 hr  
met obs

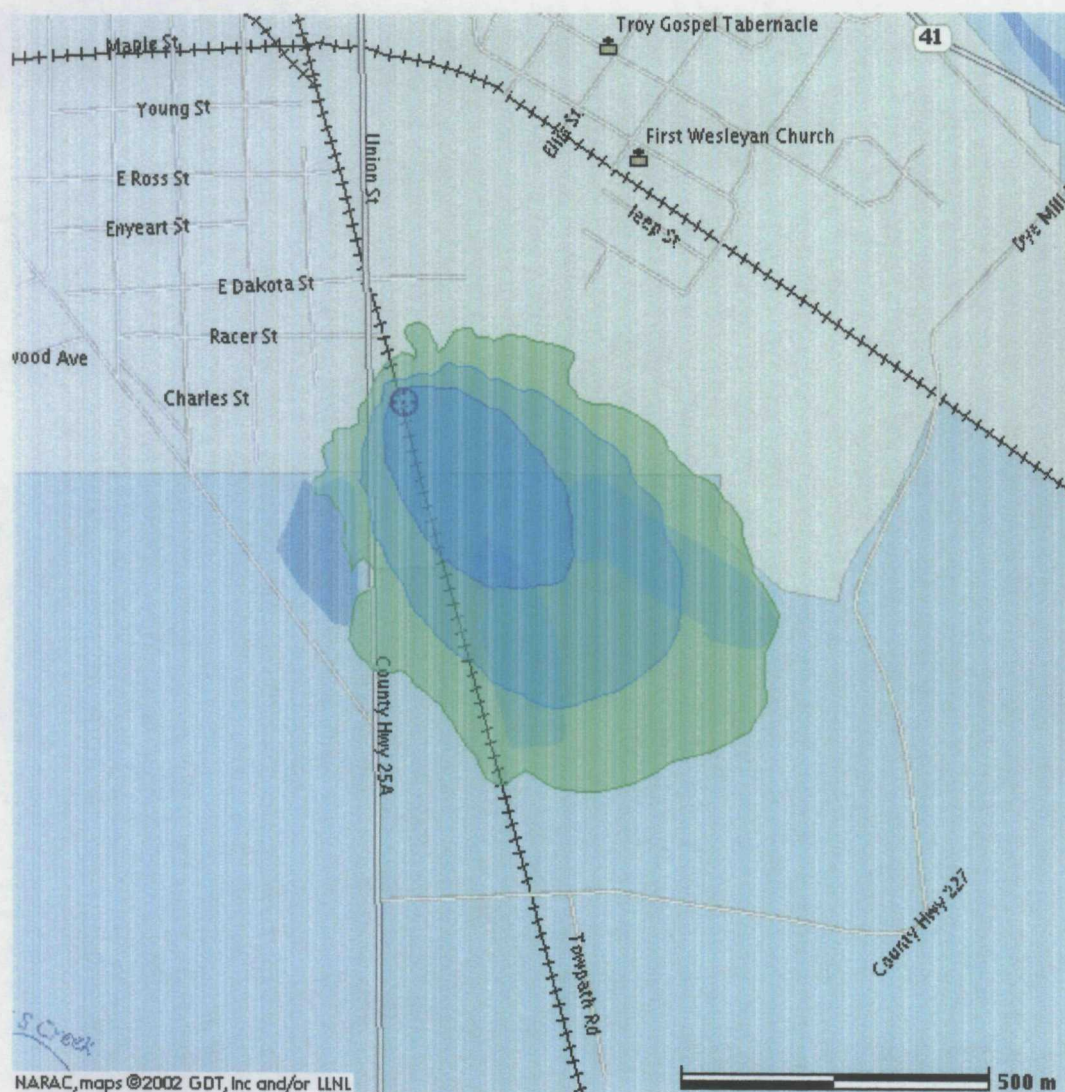
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## Max 10-min Avg Air Conc. of VINYL TOLUENE

Troy- Styrene Response  
Automated Report - Testing



Effects or contamination from 05 Aug 2005 11:15 UTC to 05 Aug 2005 11:25 UTC at or near ground level.

### Acute (Short-Term) Effects

	(lb/m3) Area Extent	Population	Description
	>0.01 0.07 km2 n/a	7	Possibly contaminated area. Use to confirm with monitoring surveys.
	>0.001 0.2 km2 n/a	14	Possibly contaminated area. Use to confirm with monitoring surveys.
	>0.0001 0.4 km2 n/a	40	Possibly contaminated area. Use to confirm with monitoring surveys.

**Note:** Areas and counts in the table are cumulative.

**Source Location:** 40.026400 N, 84.200200 W

**Material:** VINYL TOLUENE

**Comments:** Hypothetical release  
of 283.33 lb/s starting at  
08/05/2005 11:15:00 UTC for 10 min  
met obs

Not For Public Dissemination

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**Map Size:** 1.8 km by 1.8 km **Id:** Production2.rcE18954.rcC1.0

NARAC Operations: narac@llnl.gov; (925) 424-6465

Requested by: {Stephanie Wenning; EPA - Rgn 05; 513-564-8346 }

Not approved for further distribution